

TITLEPOST-MOLDING TREATMENT OF CURRENT COLLECTOR PLATES
FOR FUEL CELLS TO IMPROVE CONDUCTIVITYABSTRACT

5 Disclosed is a method of making a current collector plate for use in
a proton exchange membrane fuel cell. The method includes the steps of:
(a) molding the current collector plate by injection, compression or any
other molding process from a resin/conductive filler composition; (b)
measuring the current collector plate's average thickness; (c) measuring
10 the current collector plate's through-plane resistivity; (d) removing a
portion of the current collector plate's surface layer by abrasion; and (e)
repeating steps (a) to (d) until a desired plate thickness is removed. The
desired plate thickness removed is no more than about 10 micrometers,
and preferably about 5 micrometers.

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DPF/dmm